

WHAT IS CLAIMED IS:

1. A reflective liquid crystal display, comprising:

a lower substrate including a reflective electrode and a

5 lower orientation film;

an upper substrate opposed to the lower substrate, the upper substrate including a transparent substrate and an upper orientation film, the transparent substrate being

capable of compensating a phase of $\lambda/4$ with an optical axis
10 of a predetermined angle, the upper orientation film being formed on a surface of the transparent substrate opposed to the lower substrate;

a twisted nematic liquid crystal layer interposed between the lower substrate and the upper substrate, with a

15 predetermined phase delay value ($d\Delta n$); and

a polarizing plate attached to a outer surface of the upper substrate not opposed to the lower substrate, having a predetermined polarizing axis.

20 2. A reflective liquid crystal display as claimed in claim 1, wherein the transparent substrate capable of compensating the phase of $\lambda/4$ is a glass substrate for completely circular-polarizing light of 550nm wavelength.

3. A reflective liquid crystal display as claimed in claim 1, wherein the transparent substrate capable of compensating the phase of $\lambda/4$ is a glass substrate for changing a phase of light of 550nm wavelength by $\lambda/2$.

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4. A reflective liquid crystal display as claimed in claim 1, wherein the lower orientation film has a orientation angle of $0\sim10^\circ$ with respect to a horizontal line.

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5. A reflective liquid crystal display as claimed in claim 1, wherein the upper orientation film has a orientation angle of $-50\sim-54^\circ$ with respect to a horizontal line.

6. A reflective liquid crystal display as claimed in claim 1, wherein the liquid crystal layer has a phase delay value of $0.15\sim0.17\mu\text{m}$.

7. A reflective liquid crystal display as claimed in claim 1, wherein the liquid crystal layer has a twisted angle of $50\sim60^\circ$ with respect to the left direction.

8. A reflective liquid crystal display as claimed in claim 1, wherein the polarizing plate has a polarizing axis

with an angle of $112\sim 120^\circ$ with respect to a horizontal line.

9. A reflective liquid crystal display as claimed in claim 1, wherein the reflective electrode has a flexural surface.

10. A reflective liquid crystal display comprising:
a lower substrate including a reflective electrode;
a lower orientation film formed on the reflective electrode, having an angle of $0\sim 10^\circ$ with respect to a horizontal line;

an upper substrate opposed to the lower substrate, being made of transparent substrate capable of compensating a phase of $\lambda/4$ with an optical axis of a predetermined angle;

15 an upper orientation film formed on the upper substrate, having orientation angle of $-50\sim -54^\circ$ with respect to a horizontal line;

a twisted nematic liquid crystal layer interposed between the lower substrate and the upper substrate, with a predetermined phase delay value($d\Delta n$) of $0.15\sim 0.17\mu\text{m}$, having twist angle of $50\sim 60^\circ$ with respect to the left direction; and

a polarizing plate attached to a outer surface of the upper substrate not opposed to the lower substrate, having a

predetermined polarizing axis with an angle of $112\sim 120^\circ$ with respect to a horizontal line.

11. A reflective liquid crystal display as claimed in
5 claim 10, wherein the transparent substrate capable of compensating the phase of $\lambda/4$ is a glass substrate for completely circular-polarizing light of 550nm wavelength.

12. A reflective liquid crystal display as claimed in
10 claim 10, wherein the transparent substrate capable of compensating the phase of $\lambda/4$ is a glass substrate for changing a phase of light of 550nm wavelength into $\lambda/4$

13. A reflective liquid crystal display as claimed in
15 claim 10, wherein the reflective electrode has a flexural surface.